

Date: Fri, 15 Jul 94 10:07:47 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #796  
To: Info-Hams

Info-Hams Digest                      Fri, 15 Jul 94                      Volume 94 : Issue 796

Today's Topics:

                    \* SpaceNews 18-Jul-94 \*  
    Daily Summary of Solar Geophysical Activity for 12 July  
                    IC229H  
    Lack of professional consideration for HAM operators  
                    Need Reuter's HF RTTY freqs  
                    Questions...  
                    Repeaters in So. Calif?  
                    TDD to PC?  
                    th78e and antenna tv !!!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 15 Jul 94 14:54:59 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: \* SpaceNews 18-Jul-94 \*  
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0718  
\* SpaceNews 18-Jul-94 \*

BID: \$SPC0718

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SpaceNews

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MONDAY JULY 18, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

\* STS-65 SAREX ACTIVITY \*

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The Space Shuttle Columbia had a flawless liftoff on 08-Jul-94 at 16:43:00.083 UTC for a 14-day mission in space. Columbia has been assigned Space Command Object Number 23173 and International Designator 1994-039 A.

The Shuttle Amateur Radio Experiment (SAREX) packet robot on board the space shuttle Columbia was activated on 11-Jul-93. The following highly edited text was copied on 12-Jul-94 at WA5ZIB from the STS-65 shuttle mission:

W5RRR-1>QST [07/12/94 17:17:00] <I S6 R0>:

Hello from KC5HBV and KC5FVF aboard the Space Shuttle Columbia  
We're well into our mission now conducting materials processing and life sciences experiments that are paving the way for future operations aboard our international space station. We've talked to schools in Texas, Florida, Hawaii and Germany via SAREX and it's been great.

W5RRR-1>QRZ [07/12/94 17:17:57] <UI>:

#623-KE4HJV KE4HSB KJ5BM WD5IWT N5SEM XE2X KA5SFD KB5CXR KF7E KC6WYG WB6LLO  
K6EXO WA5RTL KA7FNQ KE6BVF KD6BOG N6MZV KD6NEX N7QQ N6HL N6ZHV AA6SF AB6DG  
WB6FJE W6US KD6VXJ W6NKF KJ9U ZS6BTD ZR3IE ZS1CM ZS6ADS N2QAC AD4HY WA4NRU

W5RRR-1>QSL [07/12/94 17:17:58] <UI>:

KB5CXR/717 PY3ADQ/662 PY3SS/647 JA1ZBM/642 7L2CAM/637 PU3VHQ/625 JA1NVB/617  
JR5EBL/611 JM1QOP/588 JA2DXY/587 JF1AJE/584 JI7JRX/583 JA3CF/582 JS1MQG/580  
TG9IKE/575

W5RRR-1>SAREX [07/12/94 17:17:59] <UI>:

This is STS-65 SAREX Robot station W5RRR-1  
onboard the Space Shuttle Columbia.

[Info via WA5ZIB]

\* GARC SHUTTLE RE-TRANSMISSIONS \*

=====

The Goddard Amateur Radio Club (GARC) invites interested people to tune

in to STS-65 shuttle ground communications transmissions. As a public service to the Amateur radio community, the GARC retransmits space shuttle air-to-ground communications. During the STS-65 mission which also carries a Shuttle Amateur Radio Experiment (SAREX), Amateur radio operators, shortwave listeners, and individuals with scanners can listen to these communications on the following HF (single sideband) and VHF (FM) frequencies:

3.860 MHz (LSB)  
7.186 MHz (LSB)  
14.295 MHz (USB)  
21.395 MHz (USB)  
28.650 MHz (USB)  
147.450 MHz (FM) in local Washington D.C. metro area

[Info via Erich Franz Stocker, N3OXM]

★ APOLLO ANNIVERSARY SPECIAL EVENTS ★

=====

At least 12 amateur stations associated with the National Aeronautics and Space Administration will be active July 19 to 22 to commemorate the 25th anniversary of humans landing on the moon, on July 20, 1969, on Apollo 11. The operations will begin at 0700 UTC July 19 and end at 0500 UTC July 22, coinciding with the time the Apollo Moon Lander (the Eagle) was on the moon's surface in 1969.

Stations are expected to be on modes including CW, SSB, FM, packet, Pactor, Amtor, RTTY, SSTV, ATV, and amateur satellites. Here are the 12 stations expected to be active:

Ames Amateur Radio Club, NASA Ames Research Center, Moffett Field, California: K6MF (AARC, Box 73, Moffett Field CA 94035-1000).

Dryden Amateur Radio Club, NASA Dryden Flight Research Center, Edwards, California: KF7GD (NASA DFRC, Attn: Dryden ARC, POB 273, Edwards CA 93523).

Goddard Amateur Radio Club, NASA Goddard Space Flight Center, Greenbelt MD: WA3NAN (GARC, PO Box 86, Greenbelt, MD 20768-0086).

Guam Contingency Landing Site Amateur Radio Group: KC4YDP/KH2 (NASA RADIO, Kennedy Space Center FL 32899).

NASA Headquarters Amateur Radio Group, Washington, DC: N4ZR (2003 Sarazen Place, Reston VA 22091-3809).

Jet Propulsion Laboratory Amateur Radio Club and Goldstone Amateur

Radio Club, Jet Propulsion Laboratory, Pasadena, California: W6VIO (JPLARC, M/S 168-327, 4800 Oak Grove Dr, Pasadena, CA 91109).

Johnson Space Center Amateur Radio Club, NASA Johnson Space Center, Houston, TX: W5RRR (JSC ARC/W5RRR, Johnson Space Center, Houston TX 77058).

Kennedy Space Center Amateur Radio Group, Kennedy Space Center, Florida: KC4TCV (NASA RADIO, Kennedy Space Center FL 32899).

NASA Lewis Amateur Radio Club (NLARC), NASA Lewis Research Center, Cleveland, Ohio: AK8Y (NASA Lewis Amateur Radio Club, 21000 Brookpark Rd, MS 54-6, Cleveland OH 44135).

Marshall Amateur Radio Club, NASA Marshall Space Flight Center, Huntsville, Alabama: WA4NZD (Marshall Amateur Radio Club, CM21X, MSFC AL 35812).

Stennis Space Center Amateur Radio Club, NASA Stennis Space Center, Mississippi: K5GY (Stennis Space Center Amateur Radio Club, Bldg 1201, Stennis Space Center MS 39529).

Wallops Island Amateur Radio Club, NASA Wallops Flight Facility, Wallops Island, Virginia: KE3ND (Wallops Island ARC, NASA Wallops Flight Facility, Building E-134, Wallops Island VA 23337).

White Sands Complex Amateur Radio Group, NASA White Sands Test Facility, Las Cruces, New Mexico: KF7E (P.O. Box 627, Organ NM 88052).

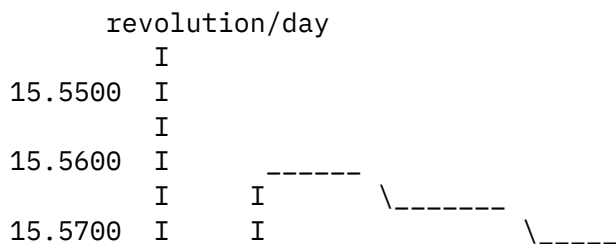
[Info via ARRL]

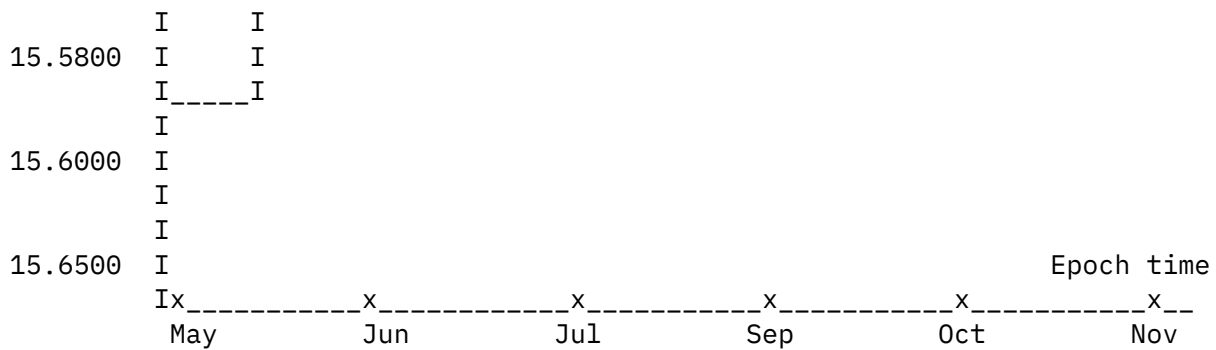
#### \* MIR ORBIT ADJUSTMENTS \*

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The following graphic depicts the mean motion (which is inversely proportional to mean orbital altitude) of Mir over the past several months:

TIME REVOLUTION (summary) for MIR Complex 16609  
(Period= day 130 to day 185 1994)





Orbit adjustments were made on 12-March, 12-May, and on 03-July when Mir docked with the Soyuz TM-19 module.

[Info via Jean-Claude, FB1RCI]

\* THANKS! \*

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Thanks to all those who sent messages of appreciation to SpaceNews, especially:

W9NQP Mark Butler Robert Morgan

\* FEEDBACK/INPUT WELCOMED \*

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Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107  
 PACKET : KD2BD @ N2KZH.NJ.USA.NA  
 INTERNET : kd2bd@ka2qhd.de.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD  
 Department of Engineering and Technology  
 Advanced Technology Center  
 Brookdale Community College  
 Lincroft, New Jersey 07738  
 U.S.A.

<<-- SpaceNews: The first amateur newsletter read in space! ->>

/EX

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## SYNOPSIS OF ACTIVITY

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Solar activity was generally at very low levels, with the exception of a C6/SF from Region 7746 (N11W58). A Type II radio emission with a speed of 4000 km/s was associated with the C6/SF flare.

Solar activity forecast: solar activity is expected to be at low levels.

STD: A very weak but noticable enhancement in protons at greater than 10 MeV has been registered at geosynchronous altitudes. The enhancement was only about 0.3 to 0.4 pfu above background levels, but this was sufficient to increase the daily proton fluence at greater than 10 MeV from the background value of 1.5E+04 to 2.5E+04 protons / cm<sup>2</sup> - day - ster.

The geomagnetic field has been at quiet levels for the past 24 hours.

Geophysical activity forecast: the geomagnetic field is expected to be at quiet to unsettled levels. Active conditions may occur around 15 July, due to a favorably coronal hole.

### Event probabilities 13 jul-15 jul

Class M	05/05/05
Class X	01/01/01
Proton	01/01/01
PCAF	Green

### Geomagnetic activity probabilities 13 jul-15 jul

#### A. Middle Latitudes

Active	20/20/30
Minor Storm	10/10/15
Major-Severe Storm	05/05/05

#### B. High Latitudes

Active	20/20/30
Minor Storm	10/10/15
Major-Severe Storm	05/05/05

HF propagation conditions were normal over all regions. No changes are expected until 14 or 15 July when a recurrent

coronal hole could elevate levels of geomagnetic and auroral activity and begin degrading high and polar latitude paths.

# COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

## REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 12/2400Z JULY

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
7746	N11W58	157	0450	DAI	06	008	BETA-DELTA	
7747	S16W52	151	0030	HSX	01	001	ALPHA	
7749	S08W71	170	0040	HSX	01	001	ALPHA	
7750	S16W69	168	0070	DAO	06	005	BETA	
7751	S12E27	072	0020	CSO	05	007	BETA	
7753	S12E52	047	0020	CSO	04	002	BETA	

REGIONS DUE TO RETURN 13 JULY TO 15 JULY

NMBR LAT LO

NONE

## LISTING OF SOLAR ENERGETIC EVENTS FOR 12 JULY, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
0911	0919	0926	7746	N12W52	C6.0	SF			II

## POSSIBLE CORONAL MASS EJECTION EVENTS FOR 12 JULY, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
12/ 0919		0932	N12W52	RSP	C6.0	15	3	

## INFERRED CORONAL HOLES. LOCATIONS VALID AT 12/2400Z

### ISOLATED HOLES AND POLAR EXTENSIONS

	EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
90	N25W42	N21W46	N32W47	N32W47	144	ISO	POS	000	10830A
92	N70E56	N40E26	N48E24	N70E56	063	ISO	POS	012	10830A
93	N70E56	N40E26	N48E24	N70E56	063	EXT	POS	012	10830A

## SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op Region	Locn	2695 MHz	8800 MHz	15.4 GHz
10 Jul:	0119	0123	0125	B1.3					

	0335	0342	0348	B7.2	SF	7749	S07W27
	0434	0439	0442	B1.7	SF	7749	S09W32
	0558	0601	0603	B1.6			
	0703	0706	0709	B1.5			
	0759	0804	0814	B1.6			
	0817	0822	0827	B2.8			
	1750	1753	1755	B1.1			
11 Jul:	0631	0637	0642	B2.7			
	0956	1002	1005	B6.4	SF	7749	S11W48
	1546	1549	1551	B1.4			
	2207	2211	2214	B1.7			

#### REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7749:	0	0	0	3	0	0	0	0	003	(25.0)
Uncorrelated:	0	0	0	0	0	0	0	0	009	(75.0)

Total Events: 012 optical and x-ray.

#### EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
10 Jul:	0434	0439	0442	B1.7	SF	7749	S09W32	III
	0817	0822	0827	B2.8				III,V

#### NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,

Spray       = Limb Spray,  
Surge       = Bright Limb Surge,  
EPL         = Eruptive Prominence on the Limb.

\*\* End of Daily Report \*\*

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Date: Thu, 14 Jul 94 21:55:55 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!agate!barrnet.net!ccmail.com!  
Gary.Lau.-.N6MMM@network.ucsd.edu  
Subject: IC229H  
To: info-hams@ucsd.edu

There's gotta be something else wrong with the 229H. Mine (purchased in '92) was stored in the original box after a year of usage (on a power supply and both it and the radio was powered off daily) and recently saw DC again a few weeks ago after I moved into my new place.

All memories was intact.

Gary Lau  
cc:Mail, a divison of Lotus Development Corporation  
Internet: glau@ccmail.com  
Amateur : N6MMM @ NOARY.#NOCAL.CA.USA.NOAM

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Date: 15 Jul 94 15:55:56 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Lack of professional consideration for HAM operators  
To: info-hams@ucsd.edu

>I think a one week cycle is a little optimistic. However, I think  
>that Amateur Radio Operators should defray the cost of processing  
>license applications. If we did, then we would have a reason to  
>complain if the processing time is excessive.

funds collected get added to the general fund pot and then disbursed as directed by Congress. no connection from source to drain, as it were.

>If I understand the situation correctly, Congress would have to pass a  
>law that would allow the FCC to assess fees for processing amateur  
>radio applications

this part is done...

>and allow the FCC to use the revenue to pay the  
>salaries of additional employees. I am not sure that it is quite that  
>simple. If the present computer system does not allow multiple access  
>to the data, then throwing people at the problem will not help, as an  
>example.

it's multiple access - but there have been problems such as a down printing system (from a phone call on wed 7/13..got a couple of ex-students that have been waiting for some time....)

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>If you really want to help, I suggest a letter to your representatives
>and to the FCC that makes the following points:
```

OK -- but be careful what you wish for...the government can get rid of the amateur radio licensing problem by doing away with amateur licenses as well. remember you've got a new computer system startup, new 610s, and a larger number of applicants than ever before...by the time congress acts the problems will be fixed.

bill wb9ivr

Date: 14 Jul 1994 21:57:48 GMT  
From: pacbell.com!well!barrnet.net!agate!howland.reston.ans.net!EU.net!sunic!  
mimuw.edu.pl!eleet.mimuw.edu.pl!andy@ames.arpa  
Subject: Need Reuter's HF RTTY freqs  
To: info-hams@ucsd.edu

Hi,

the title says it all but once more: I need a list of HF RTTY (or simmilar) frequencies, on wich one could receive REUTER's news bulletins.

I've seen some press agencies on HF, but never Reuter - and I've heard that they still use HF.

— —

73 de Andy SP5WCA

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/-----+-----+-----+-----+-----\
I Andrzej K. Brandt I SP5WCA I andy@mimuw.edu.pl I andy@sp5wca.ampr.org I
\-----+-----+-----+-----+-----/
I
I "Evil indeed is the man who has not one woman to mourn him." I
I I

```

I --- Dr. Watson in "The Hound of the Baskervilles" I  
I I

-----  
Date: Fri, 15 Jul 94 02:52:13 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!  
newsxfer.itd.umich.edu!zip.eecs.umich.edu!yeshua.marcam.com!news.kei.com!world!mv!  
netis!news@network.ucsd.edu  
Subject: Questions...  
To: info-hams@ucsd.edu

I can't believe I just discovered amateur radio. I've always known about it however, last week I finally looked into it. It is everything I have been looking for and then some, but with every new hobby there are newbie questions so here goes.....

1. I live in Sandown, NH and I'm looking to take the technicians test. Can anyone tell me where and when I can take the exam in my area?
2. I actually bought an HT today and have been listening in quite eagerly. This has only fueled my desire to get on the airwaves. Will an HT be capable of using from my house? I have no problem receiving signals, some of which are very far away.( I know this is through a repeater).
3. Where can I get a list of repeater frequencies?
4. Does the FCC allow you to operate on the air once you pass the test? The FAA issued me a temporary certificate when I passed my flight exam, is there a similar policy for radio use?

I would appreciate any help I can get. If this is not the proper place to ask these questions then I apologize for the wasted bandwidth, and would appreciate some direction as to where to ask. Thanks in advance.

Ed Robbins "When all else fails, read the instructions!"  
Sandown, NH  
erobbins@leotech.mv.com

-----  
Date: Thu, 14 Jul 94 22:00:31 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!agate!barrnet.net!ccmail.com!

Gary.Lau.-.N6MMM@network.ucsd.edu  
Subject: Repeaters in So. Calif?  
To: info-hams@ucsd.edu

In article <shopsonCsArDK.MqF@netcom.com>  
shopson@netcom.com (Scott Hopson) writes:

> What I would like to do is get a list of repeaters in So. California  
> that I can tune into. And when I get my ticket talk on. Does  
> anyone have a list or know where I could find one. Is there a repeater  
> guide published.

Better yet, you're not too far away from Electronic Times (if they're still in business...it's been a year since I last visited the store). I'm tempted to say it's off of Magnolia but my brain has lost all SoCal street information when I moved ;-). It's not too far away from Tommy's-- that much I remember. ET carries (or should carry) the ARRL Repeater Guide and maybe the repeater directory that Karl Pagel N6BVU publishes.

Gary Lau  
cc:Mail, a divison of Lotus Development Corporation  
Internet: glau@ccmail.com  
Amateur : N6MMM @ N0ARY.#NOCAL.CA.USA.NOAM

-----  
Date: 14 Jul 1994 11:15:36 MST  
From: ihnp4.ucsd.edu!ucsnews!newshub.sdsu.edu!nic-nac.CSU.net!usc!  
elroy.jpl.nasa.gov!ncar!noao!asuvax!pitstop.mcd.mot.com!mcdphx!schbbs!  
waccvm.corp.mot.com!R14793@network.ucsd.edu  
Subject: TDD to PC?  
To: info-hams@ucsd.edu

TDD's use the baudot code, 45 wpm in the domestic US, if I remember correctly. The speed is slightly different outside of the US.

Anyway, I got some info some time back regarding the tones for the mark and space and they are slightly different than the standard amateur ones (again, if I remember correctly).

You cannot use a normal modem with a pc to talk to a baudot tdd unless it is a special modem with appropriate software. IBM has some and I have seen some others. It is a nitch market, so they are not common and they are also not cheap. You could write your own if you decoded the marks and spaces externally and fed the info in the serial or parallel ports.

Newer tdds have 110 and 300 baud ascii built in, and those can talk to a pc with a modem. If your current tdd does not have ascii, you are out of luck.

Let me know if you want the info on the mark and spaces for tdds. I can dig it up at home.

--Dave DiCarlo  
r14793@waccvm.sps.mot.com

-----  
Date: 15 Jul 94 17:17:18 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: th78e and antenna tv !!!  
To: info-hams@ucsd.edu

In article <2vtfp5\$q3f@chnews.intel.com>, CecilMoore@delpi.com writes:  
> In article <2vqss5\$2st@c700-2.sm.dsi.unimi.it>,  
> Fabio MUCINGHIA II Morandi <morandi@c700-2.sm.dsi.unimi.it> wrote:  
>> >i have a problem !!!  
>> >a man that live near my house, say that, when i tal with my radio, him  
>> >tv is disturb !!!!! is it possible ???? Fabio (IW2HNP)  
>>  
>> Hi Fabio, is his TV FCC approved?... just kidding. You did not say what  
>> frequency you are on but if you are on HF, get a low-pass filter for you  
>> and a high-pass filter for him. It is possible that the design of his TV  
>> is so bad, nothing you can do can help. I wait until all my neighbors go  
>> to sleep and then work DX.  
>>  
>> Good Luck and 73, KG7BK, CecilMoore@delphi.com  
>>  
>>

And John Minger KE6DTC <jaminge@PacBell.COM> writes:

>Isn't the TH-78E the European version of the TH-78A 2M/440  
>hand-held? I don't know what frequencies are used for TV  
>in Europe, but I've never seen my TH-78A affect anyone's TV  
>at all. In fact, my J-Pole is on the same mast as my TV  
>antenna, just above it.

[stuff deleted]

The TH-78E IS the European version of the TH-78A, so the bands in question are 2m/70cm. I have induced TVI on my own TV transmitting on my 78. The path (in my case) is not through the antenna, but through the chassis.

Where I stand in the room (in a few inches space) makes a big difference. I would check to see if the neighbor is using some type of antenna amp too. I have found those to be rather sensitive.

72

-----  
Wm. A. Kirsanoff                      Internet: WAKIRSAN@ananov.remnet.ab.com  
Rockwell International              Ham: KD6MCI  
(714) 762-2872  
Alternate Internet: william\_a.\_kirsanoff@ccmail.anatcp.rockwell.com  
-----

Who are you? \* I am number 2. \* Who is number 1? \* You are number 6.  
-----

-----  
Date: 15 Jul 1994 16:29:21 GMT  
From: nothing.ucsd.edu!brian@network.ucsd.edu  
To: info-hams@ucsd.edu

References <2vv0vl\$198@hplvec.lvld.hp.com>,  
<1994Jul13.221526.6932@ke4zv.atl.ga.us>, <304ho6\$3hk@hplvec.lvld.hp.com>  
Subject : Re: which Ringo do I buy?

My goodness, if all you want is to work local repeaters and short distance simplex, just buy an S0239 connector (about a dollar) and five pieces of 1/16" brazing rod. Solder the rods into the five holes in the connector, bend four of them out to a groundplane, and cut all to 19-1/4" inches. Drop it into the top of a piece of 1" EMT and you have a nice simple effective base station antenna that cost you less than \$10. And in my experience, it'll work nearly as well as a Ringo.

The coax to hook it up will cost more than the antenna did.

- Brian

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End of Info-Hams Digest V94 #796  
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